

Montana Department of Agriculture

Standards for Pesticide Training

1. Label and Labeling Comprehension

- A. Format and terminology of labels and labeling.
- B. Understanding that labels and labeling are legal documents and the directions they contain must be followed.
- C. Understanding the meanings of product or brand name, common name and chemical name.
- D. Meaning of terms "restricted use" and "general use" pesticide.
- E. Understanding directions for use, storage and disposal, precautionary statements, and significance of the signal words " Caution, Warning and Danger".
- F. Requirements for personal protection and for protecting the environment.

2. Safety

- A. Understanding the Worker Protection Standard.
- B. Selection, use and care of personal protective equipment (PPE), personal hygiene, and precautions required when using pesticides.
- C. Re-entry interval (REI) and use restrictions to include handling, transportation, mixing and loading of pesticides.
- D. Recognize and understand the acute and chronic toxicity of pesticides.
- E. Recognition of poisoning symptoms and practical treatment.
- F. Transportation, mixing, handling and disposal precautions.

3. Environmental Risk

- A. Weather and other climatic factors affecting pesticide applications.
- B. Factors involved in drift.
- C. Factors involved in runoff and aquatic contamination.
- D. Sensitive areas and organisms affected by drift and runoff.
- E. Factors involved in ground water contamination. Ground water management plans.
- F. Protection of threatened, endangered and sensitive plant and animal species.
- G. Pesticide transportation, mixing, handling, application and disposal including container disposal.
- H. Spill prevention and control.

4. Pest Identification and Biology and Management

- A. Recognition of pests, knowledge of life cycles, recognition of pest damage and how to distinguish pests from beneficial organisms.
- B. Stage of life cycle when pests are most vulnerable to control.
- C. Understanding of the principles of Integrated Pest Management (IPM) including monitoring of pest populations and economic thresholds.

5. Pesticide and Chemical Control

- A. Types of pesticides, formulations and adjuvants.
- B. Characteristics, advantages, disadvantages and main use of typical formulations.
- C. Factors which affect a pesticide's effectiveness.
- D. Factors in choosing the correct pesticide and method of application.
- E. Concept of pesticide resistance.

6. Equipment

- A. Characteristics and main uses of typical pesticide application equipment.
- B. Factors in choosing the most appropriate equipment for applicable situations, including chemigation.
- C. Proper care, maintenance and use.

7. Calibration

- A. Dilution of concentrate formulations in accordance with label directions.
- B. Calculation of area or volume to be treated.
- C. Factors involved in calibration of equipment.
- D. Adjusting total volume per acre by changing pressure, speed of applicator, or nozzle size.

8. Pesticide Laws and Regulations

- A. Applicable state and federal laws and regulations.
- B. Responsibility of certified applicator to use a pesticide consistent with its label or labeling and to supervise any employees who are assigned to transport, handle, mixing, load, apply or dispose of pesticides.
- C. Applicator liability and penalties.

Montana Pesticide Applicator License Categories	
Commercial: (30) Agricultural Plant Pest (31) Agricultural Animal Pest (32) Agricultural Vertebrate Pest (33) Forest Pest Control (34) Ornamental & Turf (35) Seed Treatment & Elevator Control (36) Aquatic Pest Control (37) Right-of-Way Pest Control (38) Public Health Pest Control (39) Demonstration & Research (40) Industrial, Institutional, Structural and Health Related Pest Control (41) Wood Treatment (44) Special Utility (45) School IPM (46) Piscicide	Governmental: (50) Mosquito Abatement (51) Predator (54) Rodent (55) Regulatory Weed